



**CURRICULUM VITAE**

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Degree	Department/Program	University	Year
Doctorate	MATEMATİK (DR)	Bursa Uludağ University	2019
Master's Degree	MATEMATİK (YL) (TEZLİ)	Bursa Uludağ University	2015
Bachelor's Degree	MATEMATİK BÖLÜMÜ	Eskişehir Osmangazi University	2011

**PUBLICATIONS**

**A. Articles published in international peer-reviewed journals:**

- A1.** Veni S. S., Mani Rajan M., Biswas A., Yıldırım Y., Alshomrani A. S., "Modulating soliton dynamics: The role of tunable external potentials in nonisospectral nonlinear Schrödinger systems", *Physics Letters, Section A: General, Atomic and Solid State Physics*, vol. 553, 2025.
- A2.** Zayed E. M., Ahmed M. S., Arnous A. H., Yıldırım Y., "Novel soliton solutions of the (3+1)-dimensional stochastic nonlinear Schrödinger equation in birefringent fibers", *Chaos, Solitons and Fractals*, vol. 194, 2025.
- A3.** Zayed E. M. E., El-shater M., Arnous A. H., Elsherbeny A. M., Yıldırım Y., Georgescu P. L., Moraru L., Barbuta-misu N., Veni S. S., Biswas A., "Quiescent solitons in couplers for optical metamaterials with Kudryashov's sextic power-law of self-phase modulation having nonlinear chromatic dispersion", *European Physical Journal Plus*, vol. 140, no. 5, 2025.
- A4.** Elsherbeny A. M., Ahmed M. S., Arnous A. H., Biswas A., González-gaxiola O., Yıldırım Y., Alshomrani A. S., "Dispersive optical solitons with parabolic law of self-phase modulation and multiplicative white noise", *Journal of Optics (India)*, vol. 54, no. 2, pp. 353-361, 2025.
- A5.** Zayed E. M. E., Saad B. M. M., Arnous A. H., Yıldırım Y., "Novel solitary wave solutions in a generalized derivative nonlinear Schrödinger equation with multiplicative white noise effects", *Nonlinear Dynamics*, vol. 113, no. 7, pp. 7139-7183, 2025.
- A6.** Sıvackı Ş. G., Yıldırım Y., Seçer A., "Unveiling new quiescent dark and singular solitary solutions of the Fokas-Lenells equation", *European Physical Journal Plus*, vol. 140, no. 3, 2025.
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- A8.** Arnous A. H., Murad M. A. S., Biswas A., Yıldırım Y., Georgescu P. L., Moraru L., Jawad A. J. M., Hussein L., "Optical solitons for the concatenation model with fractional temporal evolution", *Ain Shams Engineering Journal*, vol. 16, no. 2, 2025.
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- A10.** Yıldırım Y., "Optical Solitons for the Dispersive Concatenation Model with Differential Group Delay", *NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS*, vol. 61, pp. 71-97, 2025.
- A11.** Yıldırım Y., "Sub-pico-second chirped optical solitons in birefringent fibers for space-time fractional Kaup-Newell equation", *JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS*, vol. 21, no. 1, 2025.

- A12.** González-gaxiola O., Biswas A., Arnous A. H., Yıldırım Y., "Optical Solitons with Parabolic and Weakly Nonlocal Law of Self-Phase Modulation by Laplace–Adomian Decomposition Method", *CMES - Computer Modeling in Engineering and Sciences*, vol. 142, no. 3, pp. 2513-2525, 2025.
- A13.** Trouba N. T., Alngar M. E. M., Shohib R. M. A., Mahmoud H. A., Yıldırım Y., Xu H., Zhu X., "Novel solitary wave solutions of the (3+1)–dimensional nonlinear Schrödinger equation with generalized Kudryashov self–phase modulation", *AIMS Mathematics*, vol. 10, no. 2, pp. 4374-4411, 2025.
- A14.** Elsherbeny A. M., Nofal T. A., Yıldırım Y., Arnous A. H., "New solitary waveforms and their dynamics in the stochastic generalized Chen–Lee–Liu model", *AIMS Mathematics*, vol. 10, no. 3, pp. 5197-5235, 2025.
- A15.** Adem A. R., Biswas A., Yıldırım Y., "Implicit quiescent optical solitons for perturbed Fokas–Lenells equation with nonlinear chromatic dispersion and a couple of self-phase modulation structures by Lie symmetry", *Semiconductor Physics, Quantum Electronics and Optoelectronics*, vol. 28, no. 1, pp. 47-52, 2025.
- A16.** Yıldırım Y., Biswas A., "Dispersive optical soliton perturbation with multiplicative white noise having parabolic law of self-phase modulation", *Semiconductor Physics, Quantum Electronics and Optoelectronics*, vol. 28, no. 1, pp. 53-58, 2025.
- A17.** Ahmed M. S., Elsherbeny A. M., Murad M. A. S., Arnous A. H., Biswas A., Yıldırım Y., Moraru L., Iticescu C., Jawad A. J. M., Hussein L., "Quiescent Optical Solitons for the Concatenation Model Having Nonlinear Chromatic Dispersion and Kerr Law of Self-Phase Modulation", *Contemporary Mathematics (Singapore)*, vol. 6, no. 2, pp. 1955-1972, 2025.
- A18.** Yıldırım Y., "Optical Soliton Parameter Dynamics by Variational Principle: Anti-cubic and Generalized Anti-cubic Forms of Self-phase Modulation (Super-gaussian and Super-sech Pulses)", *NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS*, vol. 61, pp. 275-301, 2025.
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- A22.** Yıldırım Y., "QUIESCENT OPTICAL SOLITONS IN MAGNETO-OPTIC WAVEGUIDES WITH KUDRYASHOV'S AND GENERALIZED NONLOCAL FORM OF SELF-PHASE MODULATION HAVING NONLINEAR CHROMATIC DISPERSION AND GENERALIZED TEMPORAL EVOLUTION", *UKRAINIAN JOURNAL OF PHYSICAL OPTICS*, vol. 26, no. 3, pp. 3011-3026, 2025.
- A23.** Biswas A., Wang M., Kara A. H., Yıldırım Y., Moraru L., Balanica C. M., Hussein L., Jawad A. J. M., "Cnoidal Waves, Solitary Waves, Shock Waves and Conservation Laws of the Generalized Cubic Boussinesq-Type Model for Shallow Water Wave Dynamics", *Contemporary Mathematics (Singapore)*, vol. 6, no. 2, pp. 1973-1987, 2025.
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- A28.** Biswas A., Kara A. H., Agyeman–bobie N., Hart–simmons M., Moshokoa S. P., Moraru L., Mohammed F. M., Yıldırım Y., "OPTICAL SOLITONS WITH ARBITRARY INTENSITY AND CONSERVATION LAWS OF THE PERTURBED RESONANT NONLINEAR SCHRÖDINGER'S EQUATION", *Ukrainian Journal of Physical Optics*, vol. 26, no. 2, pp. 2097-2103, 2025.
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- A41.** Elsherbny A. M., Arnous A. H., Biswas A., Yıldırım Y., Jawad A. J. M., Alshomrani A. S., "Quiescent optical solitons for Fokas-Lenells equation with nonlinear chromatic dispersion and a couple of self-phase modulation structures", *European Physical Journal Plus*, vol. 139, no. 6, 2024.
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- A48.** Yıldırım Y., "A pen-picture of optical solitons for the concatenation model with power-law of self-phase modulation by Sardar's sub-equation method and tanh-coth approach", *OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS*, vol. 18, pp. 346-352, 2024.
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- A58.** González-gaxiola O., Biswas A., Yıldırım Y., Jawad A. J. M., "OPTICAL SOLITONS FOR THE DISPERSIVE CONCATENATION MODEL BY LAPLACE-ADOMIAN DECOMPOSITION", *Ukrainian Journal of Physical Optics*, vol. 25, no. 1, pp. 1094-1105, 2024.
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- A63.** Hontinfinde R. D., Ayela M. A., Edah G., Jawad A. J. M., Biswas A., Yıldırım Y., Aphane M., Alshomrani A. S., "CHIRPED COSH-GAUSSIAN OPTICAL PULSES WITH KUDRYASHOV'S FORM OF SELF-PHASE MODULATION BY VARIATIONAL PRINCIPLE", *Ukrainian Journal of Physical Optics*, vol. 25, no. 2, pp. 2086-2098, 2024.
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